

Table S13: Amino acid distribution on different groups of extreme organisms.

AAs^a	Thermophile^b	Hyperthermophil e^c	Psychrophile^d	Psychrotolerant^e
R	-0.3	0.8	-0.6	-0.5
K	0.2	0.1	0.0	0.1
D	-0.1	-1.8	0.0	0.2
E	0.4	1.8	-0.1	-0.1
H	-0.6	-1.6	0.2	0.2
Q	0.5	-2.2	0.7	0.3
N	0.2	-0.9	0.2	0.1
S	-0.2	0.0	1.3	0.0
T	0.1	-1.7	0.2	0.7
I	0.3	0.3	0.1	0.2
L	0.1	0.7	0.3	-0.5
M	-0.2	-0.2	0.4	1.1
F	0.0	-0.5	0.2	0.0
V	-0.1	1.4	-0.4	0.3
W	-0.1	0.3	-0.1	-0.2
Y	0.6	0.7	0.1	0.0
P	-0.2	0.6	-0.5	-0.4
A	-0.4	-0.3	-0.2	-0.2
C	0.0	-1.1	0.7	-0.5
G	-0.4	0.6	-0.3	-0.1

- List of the 20 encoded standard amino acids that are considered in the analysis. The amino acids have been sorted by their biophysical features.
- Mean amino acid content as percent in the protein sequences of the thermophile organisms (see Table S1).
- Mean amino acid content as percent in the protein sequences of the hyperthermophile organisms (see Table S1).
- Mean amino acid content in percent for the psychrophile organisms (see Table S1).
- Mean amino acid content in percent for the psychrotolerant organisms (see Table S1).